

AD-224



[Print](#)



Antenna Size:
3.741 x 0.3208 in
[95.03 x 8.1476mm]

Features:

- Unique ID factory programmed and locked
- 240 bit EPC memory with an additional 512 bit user memory option
- All-purpose transponder tuned for global applications use
- Ideal for life cycle verification applications such as e-pedigree and brand authentication
- Available in high yield / high capacity rolls which integrate seamlessly into high-volume converting processes

Market Applications:

Electrical Characteristics

Operating Frequency
Integrated Circuit [IC] – Manufacturer & IC Name
RF Communications Protocol
Memory

Global (860 - 960MHz)
NXP G2XL or NXP G2XM
ISO/IEC 18000-6C & EPCglobal Class 1 Gen 2
240 bits EPC or 240 bits EPC + 512 bits User Memory

Environmental

Operating Temperature
RoHS

-40°F to 185°F [-40°C to 85°C]
Designed to comply with EU Directive 2002/95/EC

Inlay Roll Format / Finishing

Un-wind direction
Core size with adaptor insert
Maximum roll outer diameter [not to exceed]

Inlay-side out
6 in [152 mm]
12 in [305 mm]

Part Details for AD-224 (Total 6 Parts)

Part Number	600169
Chip	NXP G2XL
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] x .3208 [8.1476mm]
Die-cut dimensions	N/A
Inlay-to-liner adhesive	N/A
Liner material	N/A
Total thickness over chip [typical]	13.52 mils [343 microns]
Standard pitch	.625 in [15.88mm]
Standard web widths	4.75 in [120.65mm]
Inlay substrate material	PET
Quality assurance	100% read tested with out-of-tolerance inlay marked
Average number of units per roll	20,000

Rev	05
Part Number	600170
Chip	NXP G2XL
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] x .3208 [8.1476mm]
Die-cut dimensions	3.885 in [98.68] x .44 [11.18mm]
Inlay-to-liner adhesive	S-490 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip [typical]	14 mils [356 um]
Standard pitch	.625 in [15.88]
Standard web widths	4.125 in [104.78]
Inlay substrate material	N/A
Quality assurance	100% edit and replace
Average number of units per roll	20,000
Rev	06

Part Number	600178
Chip	NXP G2XL
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] x .3208 [8.1476mm]
Die-cut dimensions	N/A
Inlay-to-liner adhesive	N/A
Liner material	N/A
Total thickness over chip [typical]	13.52 mils [343 microns]
Standard pitch	.625 in [15.88mm]
Standard web widths	3.875 in [98.43 mm]
Inlay substrate material	PET
Quality assurance	100% read tested with out-of-tolerance inlay marked
Average number of units per roll	20,000
Rev	02

Part Number	600179
Chip	NXP G2XM
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] X .3208 [8.1476mm]
Die-cut dimensions	N/A
Inlay-to-liner adhesive	N/A
Liner material	N/A
Total thickness over chip [typical]	13.52 mils [343 microns]
Standard pitch	.625 in [15.88mm]
Standard web widths	4.75 in [120.65mm]
Inlay substrate material	PET
Quality assurance	100% read tested with out-of-tolerance inlay marked
Average number of units per roll	20,000
Rev	02

Part Number	600181
Chip	NXP G2XM
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] x .3208 [8.1476mm]
Die-cut dimensions	N/A
Inlay-to-liner adhesive	N/A
Liner material	N/A
Total thickness over chip [typical]	13.52 mils [343 microns]
Standard pitch	.625 in [15.88mm]
Standard web widths	3.875 in [98.43 mm]
Inlay substrate material	PET

Quality assurance	100% read tested with out-of-tolerance inlay marked
Average number of units per roll	20,000
Rev	02
Part Number	600180
Chip	NXP G2XM
Antenna dimensions, [CDxMD]	3.741 in [95.03mm] x .3208 [8.1476mm]
Die-cut dimensions	3.885 in [98.68] x .44 [11.18mm]
Inlay-to-liner adhesive	S-490 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip [typical]	14 mils [356 um]
Standard pitch	.625 in [15.88]
Standard web widths	4.125 in [104.78]
Inlay substrate material	N/A
Quality assurance	100% edit and replace
Average number of units per roll	20,000
Rev	04

CARE AND HANDLING RFID inlays are sensitive to ESD. Observe standard practices to keep environment static charge to a minimum.

APPLICATIONS This product should be tested by the customer/user thoroughly under end use conditions to ensure the product is fit for any particular purpose or use.

WARRANTY Please refer to Avery Dennison RFID standard terms and conditions. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

PRODUCT CHANGES Avery Dennison RFID reserves the right to modify, change, supplement of discontinue product offerings at any time without notice.

TRADEMARK STATEMENT Avery Dennison, S490 and Fasson® are trademarks of Avery Dennison Corporation. For the most recent information on Avery Dennison products, visit www.rfid.averydennison.com.

Avery Dennison RFID

North America

866 903 RFID (7343)

Mexico +55 5093 0100

Europe +352 50 46 50 1

Asia Pacific +852 9163 1313

rfid.info@averydennison.com

www.rfid.averydennison.com



Hong Kong
Tel: 852-23702227
Fax: 852-23702054
sales@sysscan.com.hk

China & Hong Kong
Guangzhou
Tel: 86-20-87610063
Fax: 86-20-87610213
gz_sales@sysscan.com.hk

Shanghai
Tel: 86-21-62825319
Fax: 86-21-62825283
sh_sales@sysscan.com.hk

www.sysscan.com.hk or www.sysscan.com.cn